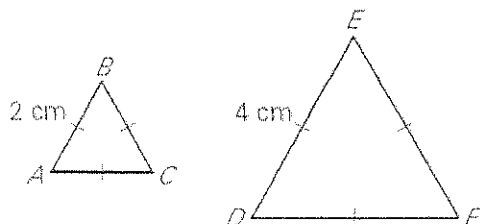


Failure to show all work and write in complete sentences will result in LaSalle!

1. Find the ratio of a side length in $\triangle ABC$ to a side length in $\triangle DEF$. Then simplify the ratio.

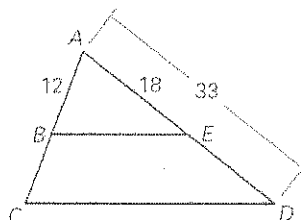


2. The perimeter and the ratio of the length to the width of a rectangle are given. Find the length and width of the rectangle.

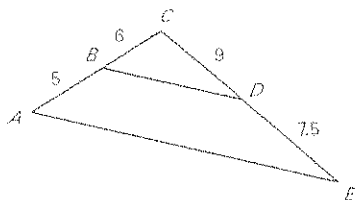
Perimeter: 50 in.
 $l : w = 3 : 2$

3. You purchase a scale model of the Golden Gate Bridge, which is located near San Francisco, California. The model states that the scale is 1 inch: 50 feet. The actual length of the bridge is 8980 feet. What is the length of the model? The model is approximately 15 inches tall. What is the actual height of the bridge?

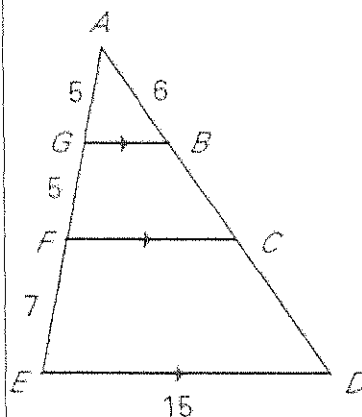
4. Given $\frac{AB}{BC} = \frac{AE}{ED}$ Find BC



5. Determine whether $BD \parallel AE$.



6. Determine the length of the line segments.



$BC =$
 $FC =$
 $GB =$
 $CD =$

Name _____

Date _____

LESSON 62 Practice B
For use with pages 364–370

Copy and complete the statement.

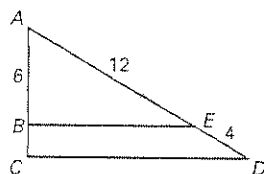
- If $\frac{6}{x} = \frac{5}{y}$, then $\frac{6}{5} = \frac{?}{?}$.
- If $\frac{x}{12} = \frac{y}{26}$, then $\frac{x}{y} = \frac{?}{?}$.
- If $\frac{x}{4} = \frac{7}{y}$, then $\frac{x+4}{4} = \frac{?}{?}$.
- If $\frac{9}{2} = \frac{x}{y}$, then $\frac{11}{2} = \frac{?}{?}$.

Decide whether the statement is *true* or *false*.

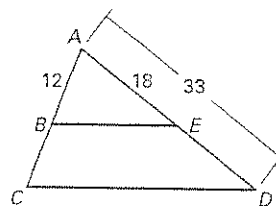
- If $\frac{x}{y} = \frac{8}{3}$, then $\frac{y}{x} = \frac{3}{8}$.
- If $\frac{x}{y} = \frac{8}{3}$, then $\frac{3}{x} = \frac{y}{8}$.
- If $\frac{x}{y} = \frac{8}{3}$, then $\frac{x}{8} = \frac{3}{y}$.
- If $\frac{x}{y} = \frac{8}{3}$, then $\frac{x}{8} = \frac{y}{3}$.
- If $\frac{x}{y} = \frac{8}{3}$, then $\frac{x+8}{8} = \frac{y+3}{3}$.
- If $\frac{x}{y} = \frac{8}{3}$, then $\frac{x+2y}{y} = \frac{14}{3}$.

Use the diagram and the given information to find the unknown length.

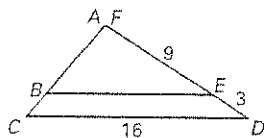
11. Given $\frac{AB}{BC} = \frac{AE}{ED}$, find BC .



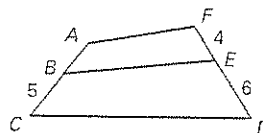
12. Given $\frac{AB}{BC} = \frac{AE}{ED}$, find BC .



13. Given $\frac{FD}{FE} = \frac{CD}{BE}$, find BE .



14. Given $\frac{AB}{BC} = \frac{FE}{ED}$, find AC .



15. Multiple Choice If m , n , p , and q are four different numbers, and the proportion

$$\frac{m}{n} = \frac{p}{q}$$

is true, which of the following is false?

- A. $mq = pn$ B. $m = p$ and $n = q$ C. $\frac{n+m}{m} = \frac{q+p}{p}$